



ENVIRONMENTAL CONSULTING & MANAGEMENT
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June 30, 2006

Mr. Herbert M. Meade
Administrator
Maryland Department of Environment
Oil Control Program
Suite 620
1800 Washington Boulevard
Baltimore, Maryland 21230-1710

Re: Supplemental Soil Vapor Sampling and Analysis Report
Exxon RAS #2-8077, Phoenix, Maryland

Dear Mr. Meade:

Roux Associates, Inc. (Roux Associates), on behalf of Exxon Mobil Corporation (ExxonMobil), and as directed by the Maryland Department of the Environment (MDE), has been conducting periodic soil vapor sampling and analysis in Phoenix, Maryland since April 2006. A summary of work performed, and soil vapor and ambient air analytical results for samples collected in April 2006 were presented to the MDE in a May 5, 2006 "Soil Vapor Sampling and Analysis Report." This "Supplemental Soil Vapor Sampling and Analysis Report" summarizes work performed and soil vapor and ambient air analytical results for samples collected between May 8, 2006 and June 9, 2006. This report also provides comprehensive data summary tables of analytical results for all soil vapor and ambient air samples collected to date.

Between May 8 and June 9, 2006, soil vapor sampling points were installed at two additional residences (3504 and 3600 Hampshire Glen Court) and periodic sampling activities were conducted at five residences (3503, 3504, 3506, 3508, and 3600 Hampshire Glen Court) and a commercial bank (14301 Jarrettsville Pike). The locations of the five residences and the bank, and the soil vapor sampling points, are shown in Figure 1.

The periodic soil vapor sampling and analysis were performed on a monthly basis as recommended in Roux Associates' May 5, 2006 "Soil Vapor Sampling and Analysis Report", and required by the MDE in a letter dated June 2, 2006.

A summary of the work performed, the soil vapor and ambient air analytical results, and conclusions and recommendations are provided below.

Summary of Work Performed

The scope of work conducted includes the following field tasks:

- Location markout and utility clearance activities;
- Installation of soil vapor sampling points; and
- Collection and analysis of soil vapor and ambient air samples.

A description of each task is provided below.

Location Markout and Utility Clearance Activities

Eight soil vapor sampling locations (SG-16 to SG-19 at 3504 Hampshire Glen Court and SG-20 to SG-23 at 3600 Hampshire Glen Court) were selected in the field by Roux Associates. Utility markouts by the local one-call center (Miss Utility) and geophysical survey information provided by ARM Group, Inc. were considered when locating the sampling points. Each sampling point was located within five feet of the building foundation.

In accordance with safe drilling practices and ExxonMobil pre-drilling protocols, utility clearance activities were conducted at each proposed location to verify the absence of utilities prior to installation of the sampling points. Utility clearance was performed by using a hand auger to remove the soil to a depth of five feet below grade. After the five-foot depth was attained, the installation of the sampling point proceeded as described below. If a subsurface obstruction was encountered at a location during the clearance activities, the location was moved as appropriate and cleared using the above procedure.

Installation of Soil Vapor Sampling Points

Soil vapor sampling points were installed at 3504 and 3600 Hampshire Glen Court by Roux Associates personnel between May 8 and May 9, 2006. At each cleared boring location, Geoprobe® hand tools were used to drive an expendable point to a depth of at least one foot below the estimated depth of the basement or foundation slab. The points were installed to a depth of eight feet below grade.

Once the appropriate depth was reached with the expendable Geoprobe® point, a six-inch length of tubular stainless steel screen connected to flexible polyethylene tubing was lowered to the bottom of the borehole through the center of the Geoprobe® rods. As the rods were removed from the borehole, the stainless steel screen and associated tubing remained in place at the appropriate depth. The end of the tubing protruding at land surface was sealed until the soil vapor sampling was initiated.

The annulus around the screen and the one-foot interval above the screen was backfilled with FilPro™ #1 gravel, followed by a three-foot interval of hydrated bentonite pellets placed on top of the gravel. The remainder of the annulus, where necessary, was backfilled to within one foot of land surface. The sampling point was completed to grade

with a five-inch diameter flush mount curb-box set in cement. The eight soil vapor sampling points installed (SG-16 to SG-23) were left undisturbed for a minimum of 24 hours following installation.

Collection and Analysis of Soil Vapor and Ambient Air Samples

Soil vapor samples were collected at the five residences and the bank on a monthly basis on the dates indicated below.

- 3503 Hampshire Glen Court: May 11 and June 8, 2006.
- 3504 Hampshire Glen Court: May 12 and June 8, 2006.
- 3506 Hampshire Glen Court: May 11 and June 8, 2006.
- 3508 Hampshire Glen Court: May 19 and June 8 to June 9, 2006.
- 3600 Hampshire Glen Court: May 12 and June 8, 2006.
- 14301 Jarrettsville Pike: May 11 and June 8, 2006.

Soil vapor sampling was performed utilizing the following steps:

1. The sampling tubing was connected to a 'T' connector three-way valve assembly, with one end of the 'T' connector leading to a vacuum pump and the other end leading to a pre-evacuated certified clean 6-liter Summa canister.
2. The soil vapor sample tubing was then purged of approximately three volumes of the sample tubing and sand-filled annulus surrounding the screen using a vacuum pump set at a rate of approximately 0.2 liters per minute. This correlates to a minimum four-minute purge time for each sample location.
3. During the May sampling event, a tracer gas (i.e., helium) was used to enrich the atmosphere in the immediate vicinity of the eight new sampling locations (SG-16 to SG-23) where the sampling tubing intersects the ground surface. Purge vapor was then monitored for helium during purging to test the borehole seal and verify that ambient air was not inadvertently being drawn into the sample. No helium was detected during purging at all new sampling locations, confirming the integrity of the borehole seals. Tracer gas was not used during subsequent sampling events.
4. Following purging, the valve leading to the pump was closed, the pump was turned off and disconnected, and the soil vapor was directed to the Summa canister for sample collection using a laboratory calibrated regulator to restrict the sample collection rate to 24 hours.

5. Once the sample was collected, additional soil vapor was extracted and screened with two separate, redundant gas meters for oxygen and carbon dioxide to assist in determining soil vapor conditions. Oxygen and carbon dioxide were measured as percent volume using the multi-gas meters, calibrated daily.

One ambient air sample was also collected at 3504 and 3600 Hampshire Glen Court during the May sampling event. Ambient air samples were previously collected at the other properties. The ambient air samples were collected to better define the background atmospheric conditions within the Study Area.

Soil vapor and ambient air samples were submitted to Accutest Laboratories of Dayton, New Jersey for volatile organic compound (VOC) analysis using United States Environmental Protection Agency (USEPA) Method TO-15. The samples collected during the May sampling event were also analyzed for methane using USEPA Method TO-3.

Soil Vapor and Ambient Air Analytical Results

Analytical results for the periodic soil vapor samples and ambient air samples collected between May and June 2006 at the 3503, 3504, 3506, 3508, and 3600 Hampshire Glen Court residences and the commercial bank located at 14301 Jarrettsville Pike are summarized in Tables 1 through 6, respectively. In addition to the analytical results for those samples described above, Tables 1 through 6 summarize analytical results from all soil vapor samples collected at each property prior to May 2006 (as previously presented in Roux Associates' May 5, 2006, "Soil Vapor Sampling and Analysis Report"). Analytical results summarized include only those VOCs that were detected at least once in any of the soil vapor samples collected during the course of the entire soil vapor investigation (soil vapor investigation began in April 2006). The laboratory reports showing the comprehensive list of analytes and results from the May and June sampling events are provided in Attachment 1.

As shown in Tables 1 through 6, 39 different VOCs were detected in soil vapor during the course of the investigation. An analysis of the soil vapor analytical results shows that concentrations of VOCs in samples collected in May and June 2006, at each sampling location, do not indicate potential for measurable contribution of VOCs to indoor air. The process of data analysis and interpretation are explained in detail in the May 2006 "Soil Vapor Sampling and Analysis Report." In addition, the May and June results were consistent with April sampling results for the area. Based upon review of the May sampling results, the MDE noted in a June 2, 2006 letter to ExxonMobil that the levels detected are below any relevant risk level.

Conclusions and Recommendations

The current soil vapor sampling results are considered to be below any relevant risk level and do not indicate potential for measurable contribution of VOCs to indoor air.

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Because of ongoing site activities, additional monitoring of the existing soil vapor points is recommended. Collection of another round of samples from all existing locations is recommended during the week of July 10, 2006. If the results from this sampling event are consistent with the previous results, it is recommended that the periodic monitoring program proceed on a quarterly basis. Each sample will continue to be collected and analyzed according to the same methods used during this investigation.

The data from each sampling event will be evaluated upon receipt of the results from the laboratory. The sampling frequency may need to be modified, upward or downward, depending upon the results of the soil vapor sampling, changes in nearby groundwater quality, as determined by the ongoing groundwater investigations; and changes in the remedial program.

Should you have any questions please do not hesitate to call me.

Sincerely,

ROUX ASSOCIATES, INC.



Andrew Baris
Vice President/
Principal Hydrogeologist

Attachments

cc: Stephanie McQueen, ExxonMobil

Table 1. Summary of Soil Vapor Investigation Analytical Data - 3503 Hampshire Glen Court
ExxonMobil - Jarrettsville Pike, Phoenix, Maryland

Sample ID	SG-9				SG-10				SG-11			
Date Sampled	4/19/06	4/28/06	5/11/06	6/8/06	4/19/06	4/28/06	5/11/06	6/8/06	4/19/06	4/28/06	5/11/06	6/8/06
Units	ppbv											
Sample Collection Duration	0.5 hour	24 hours	24-hours	24-hours	0.5 hour	24 hours	24-hours	24-hours	0.5 hour	24 hours	24-hours	24-hours
Acetone	33.2	33.1	17.4	11.0	63.5	44.6	50.5	11.1	104	84.6	32.6	13.6
Benzene	<0.40	0.39	0.34	0.15 J	<0.80	0.53	0.67	0.12 J	<0.80	0.51	0.69 J	0.12 J
Carbon disulfide	<0.40	0.55	0.63	0.45	0.50 J	1.0	0.52	1.0	<0.80	0.77	0.46 J	0.54
Carbon tetrachloride	<0.40	<0.20	<0.2	<0.20	<0.80	<0.20	<0.2	<0.20	<0.80	<0.20	<0.80	<0.20
Chlorobenzene	<0.40	<0.20	<0.2	<0.20	<0.80	<0.20	<0.2	<0.20	<0.80	<0.20	<0.80	<0.20
Chloroethane	<0.40	<0.20	<0.2	<0.20	<0.80	<0.20	0.12 J	<0.20	<0.80	<0.20	<0.80	<0.20
Chloroform	0.19 J	0.12 J	<0.2	0.37	<0.80	0.16 J	0.095 J	0.26	34.2	27.1	17.5	24.1
Chloromethane	<0.40	0.20	0.29	<0.20	0.61 J	2.8	0.55	0.39	0.67 J	0.66	<0.80	0.69
Cyclohexane	2.9	2.8	23.3	1.3	4.2	4.0	103	0.86	4.5	4.3	92.4	1.0
o-Dichlorobenzene	<0.40	<0.20	<0.2	<0.20	<0.80	<0.20	<0.2	<0.20	<0.80	<0.20	<0.80	<0.20
Dichlorodifluoromethane	0.38 J	0.73	0.41	0.49	0.41 J	0.67	0.42	0.50	0.46 J	0.69	0.43 J	0.49
cis-1,2 Dichloroethylene	<0.40	<0.20	<0.2	<0.20	<0.80	<0.20	<0.2	<0.20	<0.80	<0.20	<0.80	<0.20
Ethanol	<1.0	<0.50	2.4	2.1	<2.0	<0.50	2.1	2.0	1.1 J	1.8	2.3	2.7
Ethyl Acetate	0.69	2.3	2.5	0.31	0.77 J	3.2	1.6	0.55	0.68 J	7.8	1.3	0.76
Ethylbenzene	3.3	1.4	5.7	2.1	3.9	1.8	10.6	1.3	3.7	2.0	10.5	1.3
4-Ethyltoluene	0.23 J	0.11 J	0.11 J	0.23	0.59 J	0.14 J	0.18 J	0.24	<0.80	0.15 J	<0.80	0.16 J
Freon 113	<0.40	<0.20	0.16 J	0.34	<0.80	<0.20	0.21	0.56	<0.80	0.11 J	<0.80	0.27
Heptane	0.49	0.82	2.4	0.42	0.61 J	1.1	7.3	0.33	0.63 J	1.1	7.0	0.50
Hexane	0.41	2.4	4.5	0.50	<0.80	1.3	4.8	1.7	<0.80	1.4	4.4	0.91
2-Hexanone	<0.40	<0.20	<0.2	<0.20	<0.80	<0.20	<0.2	<0.20	<0.80	<0.20	1.5	<0.20
Isopropyl Alcohol	0.64	<0.20	2.6	<0.20	4.9	<0.20	13.5	<0.20	1.4	2.5	35.7	<0.20
Methyl ethyl ketone	0.71	1.1	4.3	0.31	2.2	2.5	6	0.42	1.7	4.3	12.8	0.57
Methyl Isobutyl Ketone	<0.40	<0.20	0.4	<0.20	<0.80	<0.20	1.4	<0.20	<0.80	<0.20	1.2	0.10 J
Methyl Tert Butyl Ether	0.63	0.32	<0.2	<0.20	<0.80	0.41	<0.2	<0.20	<0.80	0.50	<0.80	<0.20
Methylene chloride	<0.40	0.15 J	0.26	0.95	<0.80	<0.20	0.19 J	0.80	<0.80	0.14 J	<0.80	0.67
Propylene	0.43 J	0.93	<0.5	0.23 J	0.86 J	0.74	<0.5	0.32 J	0.85 J	1.2	<2.0	0.38 J
Styrene	5.1	0.37	6.4	1.9	5.5	0.46	11.8	1.1	4.6	0.53	11.1	1.1
Tertiary Butyl Alcohol	1.5	4.1	4.7	0.56	2.5	14.7	99.2	0.41	2.9	11.6	54.2	0.37
1,1,2,2-Tetrachloroethane	<0.40	<0.20	<0.2	<0.20	<0.80	<0.20	<0.2	<0.20	<0.80	<0.20	<0.80	<0.20
Tetrachloroethylene	2.9	0.95	0.6	0.42	4.6	1.0	0.71	0.33	4.2	0.68	0.71 J	0.43
Tetrahydrofuran	<0.40	<0.20	2.2	<0.20	<0.80	<0.20	1.5	<0.20	<0.80	<0.20	2.0	0.12 J
Toluene	3.1	2.7	8	3.0	4.0	3.4	19.4	2.0	3.6	3.2	16.7	2.3
Trichloroethylene	<0.40	<0.20	<0.2	<0.20	<0.80	<0.20	<0.2	<0.20	<0.80	<0.20	<0.80	<0.20
Trichlorofluoromethane	<0.40	0.41	0.26	0.24	<0.80	0.33	0.21	0.24	<0.80	0.32	<0.80	0.24
1,2,4-Trimethylbenzene	0.91	0.41	0.34	0.89	1.6	0.60	0.49	0.75	1.6	0.67	0.39 J	0.58
1,3,5-Trimethylbenzene	0.24 J	0.10 J	0.096 J	0.27	0.41 J	0.13 J	0.14 J	0.22	0.45 J	0.14 J	<0.80	0.17 J
2,2,4-Trimethylpentane	<0.40	0.32	0.29	0.18 J	<0.80	0.42	1.1	0.22	<0.80	0.43	0.97	0.22
m,p-Xylene	10.2	4.2	15.1	6.7	12.5	5.3	23.2	4.0	11.5	6.0	26.2	4.1
o-Xylene	3.9	2.2	5.4	3.0	4.7	2.8	10.2	1.9	4.3	3.2	9.8	1.9
Xylenes (total)	14.1	6.4	20.5	9.7	17.2	8.1	33.4	5.9	15.8	9.2	36.0	6.0
Methane (ppmv)	<6.5	<5.9	<5	NA	<6.0	<6.4	<7.4	NA	<6.8	<6.4	<6.9	NA
Carbon Dioxide-1 (field) %	0.1	0.25	0.0	0.3	1.2	1.8	1.2	1.6	0.6	0.4	0.4	0.4
Carbon Dioxide-2 (field) %	0.0	0.1	0.0	0.3	0.9	1.7	1.9	1.6	0.4	0.6	0.4	0.4
Oxygen-1 (field) %	20.9	20.9	20.9	20.4	20.0	19.6	19.5	19.2	20.6	21.3	20.8	20.4
Oxygen-2 (field) %	20.9	21.3	20.8	20.7	19.9	20.4	20.0	19.3	19.8	20.9	20.4	20.5

Notes:

%: Percent

<: Not detected above laboratory reporting limit shown.

J: Indicates an estimated value

ppbv: Parts per billion by volume.

ppmv: Parts per million by volume.

Ambient air sample collected at grade.

Analytes reported were detected in at least one soil vapor / ambient air sample within the entire dataset

Soil vapor samples collected at eight feet below grade

NA: Not analyzed

Table 1. Summary of Soil Vapor Investigation Analytical Data - 3503 Hampshire Glen Court
ExxonMobil - Jarrettsville Pike, Phoenix, Maryland

Sample ID	SG-12			AMBIENT-3503
Date Sampled	4/19/06	4/28/06	5/11/06	6/8/06
Units	ppbv	ppbv	ppbv	ppbv
Sample Collection Duration	0.5 hour	24 hours	24-hours	24-hours
Acetone	28.2	10.9	36	6.5
Benzene	0.14 J	0.39	0.3	0.16 J
Carbon disulfide	<0.20	0.80	0.38	0.14 J
Carbon tetrachloride	<0.20	<0.20	< 0.2	< 0.20
Chlorobenzene	<0.20	< 0.20	< 0.2	< 0.20
Chloroethane	<0.20	< 0.20	< 0.2	< 0.20
Chloroform	<0.20	0.11 J	< 0.2	< 0.20
Chloromethane	<0.20	0.15 J	< 0.2	0.62
Cyclohexane	3.2	3.1	30	0.63
o-Dichlorobenzene	<0.20	< 0.20	< 0.2	< 0.20
Dichlorodifluoromethane	0.39	0.76	0.43	0.54
cis-1,2 Dichloroethylene	<0.20	< 0.20	< 0.2	< 0.20
Ethanol	0.34 J	< 0.50	2.2	2.9
Ethyl Acetate	0.27	5.0	2.6	0.95
Ethylbenzene	3.8	2.4	9	0.55
4-Ethyltoluene	0.39	0.19 J	0.18 J	0.091 J
Freon 113	<0.20	0.20	0.21	0.31
Heptane	0.57	0.88	3.4	0.48
Hexane	0.39	1.5	1.8	6.9
2-Hexanone	0.19 J	< 0.20	< 0.2	< 0.20
Isopropyl Alcohol	0.68	< 0.20	3.8	0.21
Methyl ethyl ketone	4.7	0.82	12.8	0.42
Methyl Isobutyl Ketone	<0.20	< 0.20	0.49	< 0.20
Methyl Tert Butyl Ether	0.38	0.34	< 0.2	0.15 J
Methylene chloride	<0.20	0.48	< 0.2	1.4
Propylene	0.30 J	0.79	< 0.5	< 0.50
Styrene	5.5	0.87	11.2	0.51
Tertiary Butyl Alcohol	0.58	9.6	12.5	0.28
1,1,2,2-Tetrachloroethane	<0.20	< 0.20	< 0.2	< 0.20
Tetrachloroethylene	3.3	1.4	1.2	< 0.20
Tetrahydrofuran	0.95	< 0.20	2.5	18.4
Toluene	3.4	5.1	13.1	1.1
Trichloroethylene	<0.20	< 0.20	< 0.2	< 0.20
Trichlorofluoromethane	0.18 J	0.39	0.25	0.24
1,2,4-Trimethylbenzene	1.3	0.66	0.53	0.46
1,3,5-Trimethylbenzene	0.35	0.15 J	0.15 J	0.11 J
2,2,4-Trimethylpentane	<0.20	0.36	0.47	< 0.20
m,p-Xylene	11.5	7.9	26.5	1.6
o-Xylene	4.3	4.0	9.5	0.79
Xylenes (total)	15.8	11.9	36.1	2.4
Methane (ppmv)	<6.8	<5.7	< 7.8	NA
Carbon Dioxide-1 (field) %	0.0	0.2	0.0	0.0
Carbon Dioxide-2 (field) %	0.2	0.4	0.0	0.3
Oxygen-1 (field) %	20.9	21.1	20.9	20.4
Oxygen-2 (field) %	20.9	20.9	20.8	20.6
				20.9

Notes:

%: Percent

<: Not detected above laboratory reporting limit shown.

J: Indicates an estimated value

ppbv: Parts per billion by volume.

ppmv: Parts per million by volume.

Ambient air sample collected at grade.

Analytes reported were detected in at least one soil vapor / ambient air sample within the entire dataset

Soil vapor samples collected at eight feet below grade

NA: Not analyzed

Table 2. Summary of Soil Vapor Investigation Analytical Data - 3504 Hampshire Glen Court
ExxonMobil - Jarrettsville Pike, Phoenix, Maryland

Sample ID	SG-16		SG-17		SG-18		SG-19		AS-3504
Date Sampled	5/12/06	6/8/06	5/12/06	6/8/06	5/12/06	6/8/06	5/12/06	6/8/06	5/12/06
Units	ppbv								
Sample Collection Duration	24-hours								
Acetone	51.7	26.8	172	19.9	255	50.0	64.3	7.6	811
Benzene	0.83	0.22	0.63	0.21	0.75	0.20 J	0.65	0.12 J	0.55 J
Carbon disulfide	1.9	1.8	2.0	1.2	0.22 J	0.30 J	< 0.20	0.26	< 1.1
Carbon tetrachloride	< 0.20	< 0.20	< 0.20	< 0.20	< 0.29	< 0.40	< 0.20	< 0.20	< 1.1
Chlorobenzene	< 0.20	< 0.20	< 0.20	< 0.20	< 0.29	< 0.40	< 0.20	< 0.20	< 1.1
Chloroethane	< 0.20	< 0.20	< 0.20	< 0.20	< 0.29	< 0.40	< 0.20	< 0.20	< 1.1
Chloroform	0.63	0.62	0.21	0.73	< 0.29	0.27 J	< 0.20	< 0.20	< 1.1
Chloromethane	1.0	< 0.20	< 0.20	< 0.20	< 0.29	< 0.40	0.48	0.50	0.87 J
Cyclohexane	14.3	2.1	11.8	1.6	15.1	2.3	6.1	0.47	4.9
o-Dichlorobenzene	< 0.20	< 0.20	< 0.20	< 0.20	< 0.29	< 0.40	< 0.20	< 0.20	< 1.1
Dichlorodifluoromethane	0.47	0.62	0.46	0.48	0.45	0.55	0.38	0.47	< 1.1
cis-1,2 Dichloroethylene	< 0.20	< 0.20	< 0.20	< 0.20	< 0.29	< 0.40	< 0.20	< 0.20	< 1.1
Ethanol	3.0	3.6	1.6	2.4	2.4	3.5	1.9	2.1	5.9
Ethyl Acetate	0.43	1.1	0.81	< 0.20	0.33	0.38 J	0.36	0.62	< 1.1
Ethylbenzene	5.3	2.7	3.7	1.8	4.0	2.4	0.88	0.35	2.9
4-Ethyltoluene	0.10 J	0.37	< 0.20	0.15 J	< 0.29	0.24 J	< 0.20	< 0.20	< 1.1
Freon 113	0.12 J	0.29	0.11 J	0.29	< 0.29	0.42	0.11 J	0.53	< 1.1
Heptane	1.8	0.57	1.5	0.44	1.8	0.54	0.49	0.31	1.1
Hexane	2.8	0.93	1.8	0.70	2.3	1.2	0.91	5.1	1.4
2-Hexanone	0.33	< 0.20	0.39	< 0.20	0.47	0.21 J	< 0.20	< 0.20	0.93 J
Isopropyl Alcohol	1.3	14.2	1.6	0.24	2.1	6.4	0.82	0.19 J	4.1
Methyl ethyl ketone	4.7	2.6	9.8	1.0	7.5	4.5	1.8	0.56	11.2
Methyl Isobutyl Ketone	0.25	< 0.20	0.20	< 0.20	0.20 J	< 0.40	< 0.20	< 0.20	< 1.1
Methyl Tert Butyl Ether	0.43	0.16 J	0.23	< 0.20	0.34	< 0.40	0.32	< 0.20	< 1.1
Methylene chloride	0.19 J	0.64	0.22	0.83	0.48	0.57	0.21	0.75	< 1.1
Propylene	7.0	< 0.50	< 0.50	< 0.50	< 0.73	0.60 J	2.1	0.37 J	4.1
Styrene	5.2	2.2	4.0	1.5	4.1	2.2	0.80	0.31	2.6
Tertiary Butyl Alcohol	3.4	1.5	2.6	1.4	6.5	4.1	1.6	0.23	5.0
1,1,2,2-Tetrachloroethane	< 0.20	0.65	< 0.20	< 0.20	< 0.29	< 0.40	< 0.20	< 0.20	< 1.1
Tetrachloroethylene	0.78	0.26	0.80	0.23	0.68	0.26 J	< 0.20	< 0.20	7.4
Tetrahydrofuran	2.2	< 0.20	1.8	0.54	1.8	0.91	0.65	13.5	< 1.1
Toluene	21.7	4.0	16.5	3.5	15.7	3.5	2.4	0.83	17.5
Trichloroethylene	< 0.20	0.84	< 0.20	< 0.20	< 0.29	< 0.40	< 0.20	< 0.20	< 1.1
Trichlorofluoromethane	0.25	0.33	0.24	0.23	0.25 J	0.26 J	0.22	0.21	< 1.1
1,2,4-Trimethylbenzene	0.26	1.4	0.26	0.58	0.23 J	0.68	0.16 J	0.33	< 1.1
1,3,5-Trimethylbenzene	< 0.20	0.30	< 0.20	0.17 J	< 0.29	0.21 J	< 0.20	< 0.20	< 1.1
2,2,4-Trimethylpentane	0.50	0.35	0.32	0.25	0.42	0.33 J	0.20	< 0.20	0.56 J
m,p-Xylene	14.6	7.9	10.9	5.3	11.2	6.8	2.2	0.88	7.9
o-Xylene	5.0	3.8	4.0	2.4	4.1	3.4	0.86	0.39	3.3
Xylenes (total)	19.6	11.7	14.9	7.7	15.3	10.2	3.0	1.3	11.2
Methane (ppmv)	< 8.0	NA	< 6.7	NA	< 7.3	NA	< 6.3	NA	< 6.9
Carbon Dioxide-1 (field) %	0.8	1.2	1.0	1.3	1.1	1.4	0.6	0.8	NA
Carbon Dioxide-2 (field) %	1.3	1.1	0.8	1.1	1.8	1.2	0.8	0.7	NA
Oxygen-1 (field) %	19.2	18.8	19.6	18.7	19.9	19	19.6	19.3	NA
Oxygen-2 (field) %	19.7	18.9	19.0	18.8	19.5	19.2	19.9	19.3	NA

Notes:

<: Not detected above laboratory reporting limit shown.

J: Indicates an estimated value

ppbv: Parts per billion by volume.

ppmv: Parts per million by volume.

Ambient air sample collected at grade.

Analytes reported were detected in at least one soil vapor/ambient air sample within the entire dataset

Soil vapor samples collected at eight feet below grade

NA: Not analyzed

Table 3. Summary of Soil Vapor Investigation Analytical Data - 3506 Hampshire Glen Court

ExxonMobil - Jarrettsville Pike, Phoenix, Maryland

Sample ID	SG-5						SG-6						SG-7					
Date Sampled	4/6/06	4/18/06	4/20/06	4/28/06	5/11/06	6/8/06	4/6/06	4/18/06	4/20/06	4/28/06	5/11/06	6/8/06	4/6/06	4/18/06	4/20/06	4/28/06	5/11/06	6/8/06
Units	ppbv	ppbv																
Sample Collection Duration	0.5 hour	0.5 hour	0.5 hour	24 hours	24-hours	24-hours	0.5 hour	0.5 hour	24 hours	24-hours	24-hours	0.5 hour	0.5 hour	24 hours	24-hours	24-hours	24-hours	
Acetone	5.7	32.2	11.7	4.3	24.1	3.0	13.5	10.8	13.3	10.8	35.5	18.4	2.5	10.6	23.6	3.0	19.7	2.2
Benzene	0.27	0.15 J	<0.80	0.35	0.79	0.23	45.8	0.19 J	<0.80	0.34	0.34	0.29	172	0.15 J	<0.80	0.27	0.71 J	0.18 J
Carbon disulfide	<0.20	<0.40	<0.80	0.38	0.19 J	0.15 J	0.22	0.16 J	<0.80	0.66	0.2	0.37	0.13 J	0.24	<0.80	1.6	1	1.6
Carbon tetrachloride	<0.20	<0.40	<0.80	<0.20	<0.2	<0.20	<0.20	<0.20	<0.80	<0.20	<0.20	<0.20	<0.20	<0.20	<0.80	<0.20	<0.8	<0.20
Chlorobenzene	<0.20	<0.40	<0.80	<0.20	<0.2	0.33	<0.20	<0.20	<0.80	<0.20	<0.2	<0.20	<0.20	<0.20	<0.80	<0.20	<0.8	<0.20
Chloroethane	<0.20	<0.40	<0.80	<0.20	<0.2	<0.20	<0.20	<0.20	<0.80	<0.20	<0.2	<0.20	<0.20	<0.20	<0.80	<0.20	<0.8	<0.20
Chloroform	0.17 J	0.29 J	0.39 J	0.10 J	0.28	0.45	<0.20	<0.20	<0.80	0.12 J	0.11 J	0.21	<0.20	0.32	0.30 J	0.52	0.38 J	0.89
Chloromethane	<0.20	<0.40	<0.80	0.41	0.12 J	<0.20	<0.20	<0.20	<0.80	<0.20	0.18 J	0.19 J	0.24	<0.20	<0.80	<0.20	<0.8	<0.20
Cyclohexane	0.52	7.3	4.8	0.97	110	1.4	0.4	9.2	5	2.5	36.8	1.7	0.37	6.6	4.8	1.8	72.9	1.8
o-Dichlorobenzene	0.2	<0.40	<0.80	<0.20	<0.2	<0.20	<0.20	<0.20	<0.80	<0.20	<0.2	<0.20	<0.20	<0.80	<0.20	<0.8	<0.20	
Dichlorodifluoromethane	0.54	0.59	0.67 J	0.65	0.4	0.52	0.56	0.58	0.59 J	0.72	0.44	0.52	0.52	0.63	0.61 J	0.70	0.42 J	0.50
cis-1,2 Dichloroethylene	<0.20	<0.40	<0.80	<0.20	<0.2	<0.20	<0.20	<0.20	<0.80	<0.20	<0.2	<0.20	<0.20	<0.80	<0.20	<0.8	<0.20	
Ethanol	1.6	<1.0	<2.0	2.0	1.8	3.6	0.71	<0.50	<2.0	<0.50	1.3	3.5	0.66	<0.50	<2.0	<0.50	1.2 J	2.6
Ethyl Acetate	0.32	<0.40	<0.80	34.3	1.4	0.83	<0.20	1.5	<0.80	5.6	0.83	1.5	<0.20	0.35	<0.80	1.3	1.2	0.64
Ethylbenzene	2.9	6.6	3.7	0.87	9.6	2.0	40.0	8.0	4.5	2.8	12	1.8	149	5.8	4.0	2.1	6.9	2.0
4-Ethyltoluene	1.6	0.48	0.32 J	0.26	0.18 J	0.16 J	0.28	0.53	0.50 J	0.21	0.25	0.14 J	<0.20	0.30	0.34 J	0.14 J	<0.8	0.17 J
Freon 113	<0.20	<0.40	<0.80	0.12 J	0.099 J	0.56	<0.20	0.091 J	<0.80	0.15 J	0.12 J	0.40	<0.20	0.087 J	<0.80	<0.20	<0.8	0.54
Heptane	1.2	1.5	0.92	0.67	6.7	1.8	0.28	1.6	0.85	1.0	4.5	0.44	0.4	1.3	0.82	0.78	4.8	0.57
Hexane	0.85	0.89	<0.80	0.77	5	1.7	51.1	1.3	0.64 J	1.4	2	0.61	192	0.95	<0.80	0.71	3.8	0.67
2-Hexanone	<0.20	<0.40	<0.80	<0.20	<0.2	0.18 J	0.14 J	<0.20	<0.80	<0.20	<0.2	<0.20	<0.20	<0.80	<0.20	<0.8	<0.20	
Isopropyl Alcohol	0.5	3.0	<0.80	<0.20	12.9	0.47	0.35	4.0	<0.80	<0.20	3.2	0.35	0.74	3.0	<0.80	<0.20	5.8	0.15 J
Methyl ethyl ketone	0.52	<0.40	<0.80	<0.20	5.6	0.27	1.0	<0.20	4.8	<0.20	2.5	0.48	0.31	<0.20	<0.80	<0.20	3.9	2.3
Methyl Isobutyl Ketone	<0.20	<0.40	<0.80	<0.20	1.4	0.12 J	<0.20	<0.20	<0.80	<0.20	0.6	<0.20	<0.20	<0.20	<0.80	<0.20	0.83	<0.20
Methyl Tert Butyl Ether	0.16 J	<0.40	<0.80	<0.20	<0.2	<0.20	49.5	0.15 J	<0.80	0.48	<0.2	<0.20	185	<0.20	<0.80	<0.20	<0.8	0.12 J
Methylene chloride	<0.20	<0.40	0.97	0.79	0.16 J	0.92	<0.20	<0.20	<0.80	0.66	0.12 J	0.72	<0.20	<0.20	<0.80	<0.20	<0.8	0.84
Propylene	<0.50	<1.0	<2.0	<0.50	<0.5	0.30 J	<0.50	<0.50	<2.0	0.66	<0.5	0.98	<0.50	<0.50	<2.0	1.9	<2	0.45 J
Styrene	0.58	9.3	4.9	0.33	10.5	1.7	0.67	12.2	5.5	0.93	15.6	1.5	0.45	8.1	4.6	0.61	6.3	1.7
Tertiary Butyl Alcohol	0.87	<0.40	<0.80	3.7	80.2	1.3	32.6	1.1	<0.80	2.8	6.4	1.2	185	<0.20	<0.80	<0.20	55.8	0.79
1,1,2,2-Tetrachloroethane	<0.20	<0.40	<0.80	<0.20	<0.2	<0.20	<0.20	<0.20	<0.80	<0.20	<0.2	<0.20	<0.20	<0.80	<0.20	<0.8	<0.20	
Tetrachloroethylene	0.25	2.4	1.5	0.099 J	0.7	0.18 J	10.6	8.1	6.6	3.9	2.7	0.27	5.2	7.2	6.6	5.4	0.77 J	2.3
Tetrahydrofuran	0.25	<0.40	<0.80	<0.20	1.9	0.41	<0.20	<0.20	<0.80	<0.20	1.4	0.17 J	<0.20	<0.20	<0.80	<0.20	1.5	0.48
Toluene	16.2	4.3	2.2	2.4	19.2	3.4	53.1	6.5	3.9	4.6	15.4	3.0	173	5.9	4.2	6.2	18.6	3.3
Trichloroethylene	<0.20	<0.40	<0.80	<0.20	<0.2	<0.20	0.11 J	<0.20	<0.80	<0.20	<0.2	<0.20	<0.20	<0.80	<0.20	<0.8	<0.20	
Trichlorofluoromethane	0.26	0.28 J	0.29 J	0.27	0.19 J	0.25	0.26	0.33	0.31 J	0.38	0.21	0.29	0.25	0.31	<0.80	0.32	<0.8	0.23
1,2,4-Trimethylbenzene	0.74	1.7	1.3	0.99	0.55	0.57	0.94	1.5	1.9	0.73	0.81	0.62	0.44	0.99	1.2	0.45	0.6 J	0.64
1,3,5-Trimethylbenzene	0.18 J	0.4	0.33 J	0.28	0.16 J	0.16 J	0.26	0.42	0.52 J	0.18 J	0.24	0.18 J	0.13 J	0.27	0.33 J	0.11 J	<0.8	0.19 J
2,2,4-Trimethylpentane	1.1	<0.40	<0.80	0.27	1.1	0.092 J	0.75	0.2	<0.80	0.51	0.53	0.31	0.26	<0.20	<0.80	0.27	0.76 J	0.29
m,p-Xylene	10.8	18.0	9.7	3.0	20.3	6.0	82.7	22.7	13.1	9.3	27.4	5.5	305	16.3	11.2	6.6	16.7	6.0
o-Xylene	3.9	6.6	3.9	1.5	9.1	2.7	38.1	7.9	4.9	4.6	13.1	2.5	141	5.6	4.1	3.3	6.2	2.9
Xylenes (total)	14.7	24.7	13.5	4.5	29.4	8.7	119	30.7	18	13.9	40.5	8.0	446	21.9	15.3	9.9	22.9	8.9
Methane (ppmv)	<6.3	<6.3	<6.3	<6.2	<5	NA	<5.7	<6.5	<6.3	<6.4	<5	NA	<5.9	<5.5	<6.5	<5.8	<5	NA
Carbon Dioxide-1 (field) %	1.8	0.8	0.8	1.1	0.8	0.8	1.9	1.5	1.6	1.35	0.8	0.8	0.2	0.2	0.0	0.2	0.4	
Carbon Dioxide-2 (field) %	1.2	0.6	0.6	0.8	0.6	NA	1.4	1.2	1.2	0.8	1.2	NA	0.2	0	0.0	0.5	0.2	NA
Oxygen-1 (field) %	19.9	20.3	20.8	20.1	20.6	19.9	19.6	20.2	20.5	20.1	20	19.8	20.9	20.9	21.1	20.1	20.4	
Oxygen-2 (field) %	20.1	20.2	20.8	20.7	20	NA	19.8	19.6	20.6	20.7	20.5	NA	20.9	20.9	20.9	20.7	NA	

Notes:

%: Percent

<: Not detected above laboratory reporting limit shown.

J: Indicates an estimated value

ppbv: Parts per billion by volume.

ppmv: Parts per million by volume.

Ambient air sample collected at grade.

Analytes reported were detected in at least one soil vapor / ambient air sample within the entire dataset

Soil vapor samples collected at nine feet below grade

NA: Not analyzed

Table 3. Summary of Soil Vapor Investigation Analytical Data - 3506 Hampshire Glen Court

ExxonMobil - Jarrettsville Pike, Phoenix, Maryland

Sample ID	SG-8						AMBIENT-3506
Date Sampled	4/6/06	4/18/06	4/20/06	4/28/06	5/11/06	6/8/06	4/6/06
Units	ppbv						
Sample Collection Duration	0.5 hour	0.5 hour	0.5 hour	24 hours	24-hours	24-hours	0.5 hour
Acetone	5.9	25.3	13.3	2.8	22.6	2.9	3.3
Benzene	9.4	0.17 J	<0.80	0.31	0.68 J	0.27	0.88
Carbon disulfide	0.39	0.25	<0.80	0.93	0.44 J	0.66	<0.20
Carbon tetrachloride	<0.20	<0.20	<0.80	< 0.20	< 0.8	< 0.20	<0.20
Chlorobenzene	<0.20	<0.20	<0.80	< 0.20	< 0.8	< 0.20	<0.20
Chloroethane	<0.20	<0.20	<0.80	< 0.20	< 0.8	< 0.20	<0.20
Chloroform	5.4	6.2	5.4	5.6	2.7	5.0	<0.20
Chloromethane	<0.20	<0.20	<0.80	< 0.20	< 0.8	< 0.20	0.53
Cyclohexane	2.9	5.3	4.6	1.8	93	2.2	0.66
o-Dichlorobenzene	<0.20	<0.20	<0.80	< 0.20	< 0.8	< 0.20	<0.20
Dichlorodifluoromethane	0.47	0.62	0.60 J	0.68	0.44 J	0.44	0.50
cis-1,2 Dichloroethylene	<0.20	<0.20	<0.80	< 0.20	< 0.8	< 0.20	<0.20
Ethanol	0.59	<0.50	1.6 J	< 0.50	2	3.3	0.67
Ethyl Acetate	<0.20	2.8	<0.80	8.8	2.6	0.81	0.45
Ethylbenzene	9.4	5.6	3.8	2.1	8.3	2.1	0.63
4-Ethyltoluene	0.50	0.43	0.37 J	0.15 J	< 0.8	0.19 J	<0.20
Freon 113	<0.20	0.088 J	<0.80	0.14 J	< 0.8	0.40	<0.20
Heptane	4.4	1.1	0.73 J	0.78	5.4	0.53	0.95
Hexane	18.5	0.79	0.54 J	0.85	4.5	2.4	2.8
2-Hexanone	<0.20	<0.20	<0.80	< 0.20	< 0.8	< 0.20	<0.20
Isopropyl Alcohol	<0.20	7.7	9.1	< 0.20	10.5	< 0.20	<0.20
Methyl ethyl ketone	0.29	1.3	<0.80	< 0.20	4.6	0.39	<0.20
Methyl Isobutyl Ketone	<0.20	<0.20	<0.80	< 0.20	1	< 0.20	<0.20
Methyl Tert Butyl Ether	65.3	0.13 J	<0.80	0.27	< 0.8	< 0.20	11.7
Methylene chloride	<0.20	<0.20	<0.80	< 0.20	< 0.8	0.63	0.19 J
Propylene	<0.50	<0.50	<2.0	< 0.50	< 2	0.31 J	<0.50
Styrene	0.63	8.2	4.6	0.57	8.7	1.7	<0.20
Tertiary Butyl Alcohol	6.5	<0.20	<0.80	3.4	79.1	3.1	<0.20
	<0.20	<0.20	<0.80	< 0.20	< 0.8	< 0.20	<0.20
Tetrachloroethylene	3.5	6.4	4.7	6.5	0.62 J	0.93	0.30
Tetrahydrofuran	<0.20	<0.20	<0.80	< 0.20	2	1.5	<0.20
Toluene	22.8	4.7	2.8	4.0	15.4	3.4	3.2
Trichloroethylene	<0.20	<0.20	<0.80	< 0.20	< 0.8	< 0.20	<0.20
Trichlorofluoromethane	0.24	0.32	0.29 J	0.36	< 0.8	0.25	0.23
1,2,4-Trimethylbenzene	1.4	1.2	1.4	0.52	< 0.8	0.63	0.22
1,3,5-Trimethylbenzene	0.45	0.35	0.37 J	0.12 J	< 0.8	0.19 J	<0.20
2,2,4-Trimethylpentane	1.5	<0.20	<0.80	0.29	0.86	0.29	0.49
m,p-Xylene	21.3	16.2	10.6	6.6	20.4	6.1	1.1
o-Xylene	8.7	5.7	4.1	3.2	7.5	2.8	0.42
Xylenes (total)	30	21.9	14.6	9.8	27.9	8.9	1.5
Methane (ppmv)	<5.7	<5.6	<6.5	<5.9	< 7.2	NA	<6.2
Carbon Dioxide-1 (field) %	1.6	1.5	1.4	1.6	1.2	1.0	0.0
Carbon Dioxide-2 (field) %	1.2	0.9	1.0	1.0	0.8	NA	0.0
Oxygen-1 (field) %	19.6	20.2	20.2	20.0	20.3	19.8	20.9
Oxygen-2 (field) %	19.9	20.7	20.1	20.6	19.6	NA	20.9

Notes:

%: Percent

<: Not detected above laboratory reporting limit shown.

J: Indicates an estimated value

ppbv: Parts per billion by volume.

ppmv: Parts per million by volume.

Ambient air sample collected at grade.

Analytes reported were detected in at least one soil vapor / ambient air sample within the entire dataset

Soil vapor samples collected at nine feet below grade

NA: Not analyzed

Table 4. Summary of Soil Vapor Investigation Analytical Data - 3508 Hampshire Glen Court

ExxonMobil - Jarrettsville Pike, Phoenix, Maryland

Sample ID	SG-1				SG-2				SG-3				SG-4				AMBIENT-3508
Date Sampled	4/5/06	4/19/06	5/19/06	6/8/06	4/5/06	4/19/06	5/19/06	6/8/06	4/5/06	4/19/06	5/19/06	6/8/06	4/5/06	4/19/06	5/19/06	6/9/06	4/5/06
Units	ppbv																
Sample Collection Duration	0.5 hour	0.5 hour	24-hours	24-hours	0.5 hour	0.5 hour	24-hours	24-hours	0.5 hour	24-hours	24-hours	0.5 hour	0.5 hour	24-hours	24-hours	0.5 hour	
Acetone	24.3	28.3	6.4	8.4	23.9	45.5	6.9	5.0	<0.20	42.9	13.5	11.1	3.5	27.0	8.3	24.0	2.3
Benzene	0.44	0.083 J	0.62	0.38	0.33	0.13 J	0.22 J	0.24	<0.20	0.28	0.17 J	0.31	0.12 J	0.097 J	1.1	0.34	0.10 J
Carbon disulfide	<0.20	<0.20	0.90	1.2	0.19 J	0.36	0.51	0.57	<0.20	0.19 J	0.42	0.58	0.076 J	0.14 J	0.39	0.27	<0.20
Carbon tetrachloride	<0.20	<0.20	<0.22	<0.20	0.076 J	<0.20	<0.23	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.22	<0.20	0.072 J
Chlorobenzene	1.5	<0.20	<0.22	<0.20	<0.20	<0.20	<0.23	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20
Chloroethane	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.23	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20
Chloroform	<0.20	<0.20	0.14 J	0.54	<0.20	<0.20	<0.23	<0.20	0.36	3.6	5.0	7.0	0.14 J	0.39	0.22	0.34	<0.20
Chloromethane	<0.20	<0.20	0.33	1.2	0.14 J	<0.20	<0.23	<0.20	<0.20	<0.20	<0.22	<0.20	0.88	0.62	0.43	0.56	0.32
Cyclohexane	<0.20	3.2	0.64	3.1	<0.20	8.8	3.8	2.0	<0.20	11.2	1.8	2.2	0.32	4.8	0.65	2.4	<0.20
o-Dichlorobenzene	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.23	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20
Dichlorodifluoromethane	0.53	0.62	0.47	0.57	0.62	0.52	0.58	0.68	0.13 J	0.70	0.46	0.56	0.50	0.63	0.52	0.53	0.45
cis-1,2 Dichloroethylene	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.23	<0.20	<0.20	0.11 J	<0.22	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20
Ethanol	<0.50	<0.50	1.5	6.8	0.9	0.58	0.89	5.1	<0.50	<0.50	0.79	4.2	<0.50	0.49 J	2.4	3.9	<0.50
Ethyl Acetate	<0.20	0.57	0.75	1.6	<0.20	<0.20	1.5	0.83	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	0.47	0.67	<0.20
Ethylbenzene	0.82	3.0	0.91	2.6	0.85	7.1	1.4	2.6	0.30	10.2	1.3	3.0	2.2	4.2	1.1	1.3	<0.20
4-Ethyltoluene	0.17 J	0.23	0.22	0.23	0.24	0.33	0.13 J	0.27	<0.20	0.51	<0.22	0.40	0.22	0.26	0.21 J	0.13 J	<0.20
Freon 113	0.083 J	0.12 J	0.12 J	0.20	<0.20	<0.20	0.35	0.34	<0.20	0.088 J	0.16 J	0.20	0.081 J	0.089 J	0.23	0.27	<0.20
Heptane	<0.20	0.54	0.9	0.83	0.14 J	1.4	0.54	0.54	0.08 J	2.2	0.54	0.60	0.34	0.83	0.98	0.49	<0.20
Hexane	<0.20	0.37	2.3	1.4	0.28	0.83	0.50	1.3	<0.20	1.9	0.50	1.0	0.33	0.58	3.5	0.73	<0.20
2-Hexanone	<0.20	<0.20	<0.22	<0.20	<0.20	0.41	<0.23	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20
Isopropyl Alcohol	<0.20	1.1	<0.22	0.57	9.0	2.7	<0.23	0.27	<0.20	3.0	<0.22	1.1	7.3	1.6	<0.22	0.39	2.6
Methyl ethyl ketone	0.59	2.1	1.4	0.65	0.67	0.84	0.77	0.59	<0.20	0.71	1.1	1.4	<0.20	<0.20	2.1	1.9	<0.20
Methyl Isobutyl Ketone	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.23	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20
Methyl Tert Butyl Ether	<0.20	<0.20	0.26	0.14 J	<0.20	<0.20	<0.23	<0.20	<0.20	0.13 J	<0.22	<0.20	<0.20	<0.20	0.53	<0.20	<0.20
Methylene chloride	<0.20	<0.20	<0.22	0.67	<0.20	<0.20	0.54	0.89	<0.20	<0.20	<0.22	0.90	<0.20	<0.20	<0.22	0.96	0.11 J
Propylene	<0.50	<0.50	<0.56	0.97	1.8	0.38 J	<0.57	0.37 J	<0.50	<0.50	<0.56	0.76	<0.50	0.59	<0.55	1.8	<0.50
Styrene	<0.20	4.3	0.20 J	2.1	0.18 J	11.4	1.1	2.2	<0.20	15.9	1.1	2.8	0.39	6.4	0.29	0.88	<0.20
Tertiary Butyl Alcohol	<0.20	<0.20	0.75	3.2	<0.20	2.8	2.2	1.9	<0.20	<0.20	1.0	<0.20	1.0	2.4	4.2	<0.20	<0.20
1,1,2,2-Tetrachloroethane	<0.20	<0.20	<0.22	<0.20	<0.20	<0.23	<0.20	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20
Tetrachloroethylene	2.0	0.89	0.57	0.19 J	3.0	2.0	0.16 J	0.21	<0.20	2.1	0.17 J	0.23	0.18 J	1.0	0.51	0.11 J	<0.20
Tetrahydrofuran	<0.20	<0.20	1.1	0.41	<0.20	0.43	0.45	<0.20	<0.20	0.25	<0.20	<0.20	<0.20	<0.20	1.9	<0.20	<0.20
Toluene	3.3	2.5	5.6	5.1	20.9	5.4	3.3	3.4	9.6	19.3	4.4	5.0	5.9	2.8	5.9	2.7	<0.20
Trichloroethylene	<0.20	<0.20	<0.22	<0.20	<0.20	<0.23	<0.20	<0.20	0.25	<0.22	<0.20	<0.20	<0.20	<0.22	<0.20	<0.20	<0.20
Trichlorofluoromethane	0.28	0.29	0.21 J	0.27	0.28	0.22	0.21 J	0.26	0.087 J	0.37	0.21 J	0.30	0.45	0.49	0.25	0.28	0.20
1,2,4-Trimethylbenzene	0.57	0.76	0.85	0.78	0.85	1.3	0.40	0.78	<0.20	1.9	0.32	1.4	0.67	0.91	0.80	0.45	<0.20
1,3,5-Trimethylbenzene	0.15 J	0.19 J	0.20 J	0.22	0.21	0.35	<0.23	0.23	<0.20	0.49	<0.22	0.35	0.17 J	0.24	0.19 J	0.14 J	<0.20
2,2,4-Trimethylpentane	0.097 J	0.096 J	0.38	0.49	0.14 J	<0.20	0.26	0.37	<0.20	0.95	0.26	0.46	<0.20	0.12 J	0.77	0.61	0.099 J
m,p-Xylene	3.3	8.7	3.3	8.3	3.0	21.2	4.1	8.3	1.0	28.7	4.2	9.2	8.2	11.7	3.5	3.6	<0.20
o-Xylene	1.1	3.2	0.91	3.6	0.9	7.0	1.8	3.7	0.4	10.3	2.0	4.6	3	4.4	1.1	1.8	<0.20
Xylenes (total)	4.4	11.8	4.2	11.9	3.9	28.2	6.0	12.0	1.4	39.0	6.2	13.8	11.1	16.1	4.5	5.4	<0.20
Methane (ppmv)	5.4	<6.5	<5.6	NA	NA	<8.0	<5.7	NA	<5.6	<6.8	<5.6	NA	<6.0	<7.4	<5.5	NA	6.4
Carbon Dioxide-1 (field) %	0.4	0.2	0.6	0.8	0.4	0.4	0.4	0.6	0.4	0.4	0.4	0.6	0.4	0.4	0.4	NA	0.0
Carbon Dioxide-2 (field) %	0.2	0.2	0.8	NA	0.4	0.2	0.4	NA	0.3	0.4	0.6	NA	0.3	0.2	0.4	NA	0.0
Oxygen-1 (field) %	20.8	20.9	20.3	20.4	19.8	20.9	20.5	20.4	20.7	20.7	20.4	20.4	20.8	20.9	20.5	NA	20.9
Oxygen-2 (field) %	20.9	20.9	20.2	NA	20.2	20.9	20.7	NA	20.7	20.5	NA	20.8	20.7	20.6	NA	20.9	20.9

Notes:

%: Percent

<: Not detected above laboratory reporting limit shown.

J: Indicates an estimated value

NA: Not analyzed

ppbv: Parts per billion by volume.

ppmv: Parts per million by volume.

Ambient air sample collected at grade.

Analytes reported were detected in at least one soil vapor / ambient air sample within the entire dataset

Soil vapor samples collected at eight feet below grade

Table 5. Summary of Soil Vapor Investigation Analytical Data - 3600 Hampshire Glen Court
ExxonMobil - Jarrettsville Pike, Phoenix, Maryland

Sample ID	SG-20	SG-21	SG-22	SG-23	AS-3600		
Date Sampled	5/12/06	6/8/06	5/12/06	6/8/06	5/12/06	6/8/06	5/12/06
Units	ppbv						
Sample Collection Duration	24-hours						
Acetone	27.5	19.7	183	5.5	86.1	9.2	222
Benzene	0.10 J	0.17 J	0.63	0.16 J	0.72	0.13 J	0.70
Carbon disulfide	0.29	0.42	0.29 J	0.29	< 0.61	0.20	0.21
Carbon tetrachloride	< 0.20	< 0.20	< 0.32	< 0.20	< 0.61	< 0.20	< 0.20
Chlorobenzene	< 0.20	< 0.20	< 0.32	< 0.20	< 0.61	< 0.20	< 0.20
Chloroethane	< 0.20	< 0.20	< 0.32	< 0.20	< 0.61	< 0.20	< 0.20
Chloroform	< 0.20	2.0	55.1	87.8	34.0	0.71	< 0.20
Chloromethane	0.59	< 0.20	0.34	< 0.20	< 0.61	0.65	0.13 J
Cyclohexane	2.4	1.6	43.4	1.4	20.3	< 0.20	12.1
o-Dichlorobenzene	< 0.20	< 0.20	< 0.32	< 0.20	< 0.61	< 0.20	< 0.20
Dichlorodifluoromethane	0.44	0.52	0.46	0.56	0.53 J	0.55	0.46
cis-1,2 Dichloroethylene	< 0.20	< 0.20	< 0.32	< 0.20	< 0.61	< 0.20	< 0.20
Ethanol	1.0	2.2	2.1	3.1	2.0	1.8	3.3
Ethyl Acetate	0.23	0.75	1.4	0.88	< 0.61	2.4	0.93
Ethylbenzene	0.25	1.8	5.8	1.6	5.0	0.22	4.1
4-Ethyltoluene	< 0.20	0.16 J	< 0.32	0.19 J	< 0.61	< 0.20	< 0.20
Freon 113	0.098 J	0.32	0.44	0.41	0.96	0.21	0.14 J
Heptane	0.16 J	0.39	2.8	0.36	2.0	0.17 J	1.6
Hexane	0.35	0.59	2.4	1.1	2.2	2.4	2.0
2-Hexanone	< 0.20	< 0.20	< 0.32	< 0.20	< 0.61	< 0.20	< 0.20
Isopropyl Alcohol	0.62	< 0.20	40.0	0.33	3.4	< 0.20	1.7
Methyl ethyl ketone	0.47	1.4	7.3	0.50	3.4	0.48	8.5
Methyl Isobutyl Ketone	< 0.20	< 0.20	0.63	< 0.20	< 0.61	< 0.20	0.21
Methyl Tert Butyl Ether	< 0.20	5.8	< 0.32	0.12 J	< 0.61	< 0.20	0.27
Methylene chloride	0.54	0.69	0.29 J	0.38	0.67	0.51	0.36
Propylene	< 0.50	0.32 J	1.7	0.26 J	< 1.5	< 0.50	< 0.50
Styrene	0.28	1.4	5.9	1.3	5.2	0.19 J	4.3
Tertiary Butyl Alcohol	1.5	1.9	33.9	0.80	19.2	0.39	4.3
1,1,2,2-Tetrachloroethane	< 0.20	< 0.20	< 0.32	< 0.20	< 0.61	< 0.20	< 0.20
Tetrachloroethylene	< 0.20	0.72	0.75	0.64	2.8	< 0.20	0.73
Tetrahydrofuran	1.6	0.41	1.5	0.38	1.6	0.60	1.6
Toluene	0.57	3.1	11.8	3.0	18.2	0.53	15.7
Trichloroethylene	< 0.20	< 0.20	< 0.32	< 0.20	< 0.61	< 0.20	< 0.20
Trichlorofluoromethane	0.29	2.8	150	211	118	3.7	12.1
1,2,4-Trimethylbenzene	< 0.20	0.64	0.34	0.62	< 0.61	0.17 J	0.22
1,3,5-Trimethylbenzene	< 0.20	0.19 J	< 0.32	0.19 J	< 0.61	< 0.20	< 0.20
2,2,4-Trimethylpentane	< 0.20	0.31	0.66	0.27	0.51 J	< 0.20	0.39
m,p-Xylene	0.60	5.3	15.8	5.0	13.2	0.56	11.7
o-Xylene	0.26	2.5	5.7	2.3	5.2	0.28	4.3
Xylenes (total)	0.86	7.7	21.5	7.3	18.4	0.84	16.1
Methane (ppmv)	< 5.0	NA	< 7.2	NA	< 7.6	NA	< 6.8
Carbon Dioxide-1 (field) %	0.6	0.6	1.8	1.8	1.6	2.2	0.8
Carbon Dioxide-2 (field) %	1.0	NA	2.8	NA	2.7	NA	0.6
Oxygen-1 (field) %	20.1	20.3	19.6	19.6	19.5	19.3	20.1
Oxygen-2 (field) %	20.7	NA	19.9	NA	19.9	NA	20.5

Notes:

<: Not detected above laboratory reporting limit shown.

J: Indicates an estimated value

ppbv: Parts per billion by volume.

ppmv: Parts per million by volume.

Analytes reported were detected in at least one soil vapor/ambient air sample within the entire dataset

Soil vapor samples collected at eight feet below grade

NA: Not analyzed

Table 6. Summary of Soil Vapor Investigation Analytical Data - 14301 Jarrettsville Pike
ExxonMobil - Jarrettsville Pike, Phoenix, Maryland

Sample ID	SG-13				SG-14				SG-15				AMBIENT-14301
Date Sampled	4/6/06	4/18/06	5/11/06	6/8/06	4/6/06	4/18/06	5/11/06	6/8/06	4/6/06	4/18/06	5/11/06	6/8/06	4/6/06
Units	ppbv												
Sample Collection Duration	0.5 hour	0.5 hour	24-hours	24-hours	0.5 hour	0.5 hour	24-hours	24-hours	0.5 hour	0.5 hour	24-hours	24-hours	0.5 hour
Acetone	20.0	25.9	96.4	35.2	11.2	26.8	7.3	28.0	45.4	9.9	82.5	70.3	4.4
Benzene	1.6	0.21	0.58	0.78	0.56	0.19 J	0.65	0.73	6.0	0.17 J	0.5	0.46	1.5
Carbon disulfide	0.36	0.40	1	1.2	0.13 J	0.18 J	0.12 J	2.2	0.78	1.1	3.5	2.9	<0.20
Carbon tetrachloride	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.2	<0.32	<0.20	<0.20	<0.31	<0.20	<0.20
Chlorobenzene	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.2	<0.32	<0.20	<0.20	<0.31	<0.20	<0.20
Chloroethane	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.2	<0.32	<0.20	<0.20	<0.31	<0.20	<0.20
Chloroform	<0.20	0.19 J	0.21	0.71	<0.20	0.10 J	<0.2	0.78	<0.20	0.097 J	<0.31	0.69	<0.20
Chloromethane	0.21	<0.20	0.33	0.19 J	<0.20	<0.20	0.47	<0.32	0.87	<0.20	0.23 J	0.15 J	0.61
Cyclohexane	0.78	6.2	37.3	1.4	0.63	3.7	5.3	2.5	5.4	7.3	23.6	1.8	1.1
o-Dichlorobenzene	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.2	<0.32	<0.20	<0.20	<0.31	<0.20	<0.20
Dichlorodifluoromethane	13.2	35.9	15.7	17.3	8.2	10.1	0.55	3.2	4.9	5.3	3.5	5.5	0.54
cis-1,2 Dichloroethylene	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.2	<0.32	<0.20	<0.20	<0.31	<0.20	<0.20
Ethanol	1.1	<0.50	2.5	6.4	0.80	0.38 J	1.8	6.3	0.98	<0.50	3.1	6.6	0.76
Ethyl Acetate	0.52	<0.20	0.79	0.95	<0.20	1.6	0.48	7.6	<0.20	2.8	3.6	1.1	<0.20
Ethylbenzene	2.5	7.2	11.5	1.9	1.5	4.0	1.1	2.5	10.9	5.9	8.1	2.6	2.4
4-Ethyltoluene	0.36	0.57	0.22	0.21	0.19 J	0.43	0.11 J	0.22 J	2.5	0.36	0.18 J	0.23	0.61
Freon 113	0.12	0.10 J	0.14 J	0.32	<0.20	0.099 J	0.12 J	1.1	<0.20	0.088 J	0.42	0.34	<0.20
Heptane	1.5	1.6	4.5	1.5	1.7	0.89	0.65	1.1	10.8	1.4	5.9	1.0	2.4
Hexane	3.2	0.98	2.5	2.5	0.46	0.58	1.3	1.9	26.6	0.95	1.9	1.3	5.5
2-Hexanone	<0.20	<0.20	<0.2	0.44	<0.20	<0.20	<0.2	0.25 J	<0.20	<0.20	1.2	0.63	<0.20
Isopropyl Alcohol	0.43	<0.20	2.7	0.36	0.36	1.3	0.7	0.68	<0.20	2.2	3.9	0.34	<0.20
Methyl ethyl ketone	1.4	<0.20	7.4	4.0	0.42	0.63	0.63	3.1	0.77	<0.20	7.6	8.5	<0.20
Methyl Isobutyl Ketone	<0.20	<0.20	0.71	0.18 J	<0.20	<0.20	<0.2	<0.32	<0.20	<0.20	0.43	0.13 J	<0.20
Methyl Tert Butyl Ether	11.0	0.18 J	<0.2	<0.20	0.69	0.14 J	<0.2	<0.32	87.9	0.22	<0.31	<0.20	20.6
Methylene chloride	<0.20	<0.20	0.17 J	0.60	<0.20	<0.20	0.19 J	0.69	<0.20	<0.20	0.46	0.61	<0.20
Propylene	<0.50	1.1	3.2	23.4	<0.50	0.41 J	<0.5	1.5	2.6	0.52	<0.78	2.9	<0.50
Styrene	0.31	10.6	14.5	1.2	0.42	4.7	1	1.9	1.3	8.9	10.5	1.8	0.15 J
Tertiary Butyl Alcohol	0.53	<0.20	5.4	0.57	0.29	<0.20	1.2	1.2	0.23	<0.20	10.7	1.3	<0.20
1,1,2-Tetrachloroethane	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.2	<0.32	<0.20	<0.20	<0.31	<0.20	<0.20
Tetrachloroethylene	2.7	8.5	3.6	1.6	1.7	5.6	0.09 J	0.96	16.7	7.9	2.8	1.2	<0.20
Tetrahydrofuran	<0.20	<0.20	0.43	<0.20	<0.20	<0.20	0.51	<0.32	<0.20	<0.20	0.33	<0.20	<0.20
Toluene	16.7	7.5	18.9	6.1	2.4	3.9	6.5	5.0	45.9	4.3	9.5	6.1	8.8
Trichloroethylene	<0.20	<0.20	<0.2	<0.20	0.14 J	<0.20	<0.2	<0.32	<0.20	<0.20	<0.31	<0.20	<0.20
Trichlorofluoromethane	0.25	0.37	0.2	0.25	0.29	0.31	0.2	0.24 J	5.4	6.8	5.6	8.5	0.26
1,2,4-Trimethylbenzene	1.3	1.8	0.59	0.79	0.59	1.6	0.43	0.80	11.6	1.1	0.59	0.90	2.4
1,3,5-Trimethylbenzene	0.36	0.50	0.18 J	0.24	0.16 J	0.40	0.12 J	0.24 J	3.2	0.29	0.18 J	0.27	0.70
2,2,4-Trimethylpentane	0.57	0.16 J	0.64	0.35	<0.20	<0.20	0.13 J	0.42	3.1	<0.20	0.53	0.54	0.76
m,p-Xylene	7.3	20.8	26.3	6.0	5.8	12.0	2.5	7.1	27.1	16.2	22.8	8.2	4.8
o-Xylene	2.7	7.3	12.1	2.4	2.2	4.2	0.89	3.2	9.7	5.7	9.5	3.4	1.9
Xylenes (total)	10	28.2	38.4	8.4	8	16.2	3.4	10.3	36.7	21.9	32.3	11.6	6.7
Methane (ppmv)	<6.0	<7.2	<5	NA	<6.0	<6.0	<5	NA	<6.3	<6.3	<7.8	NA	<5.9
Carbon Dioxide-1 (field) %	0	0	0.6	0.6	0.2	0.4	0.4	0.6	1.6	1	0.9	1.3	NA
Carbon Dioxide-2 (field) %	0	0.4	0.4	0.6	0.2	0.2	0.4	0.6	0.8	0.8	1.5	1.4	NA
Oxygen-1 (field) %	20.9	20.6	20.9	20.2	20.9	20.8	20.9	20.2	20.4	20.4	20.1	19.6	NA
Oxygen-2 (field) %	20.9	19.9	20.7	20.2	20.9	20.8	20.9	20.2	20.8	20.3	20.4	19.5	NA

Notes:

%: Percent

<: Not detected above laboratory reporting limit shown.

J: Indicates an estimated value

ppbv: Parts per billion by volume.

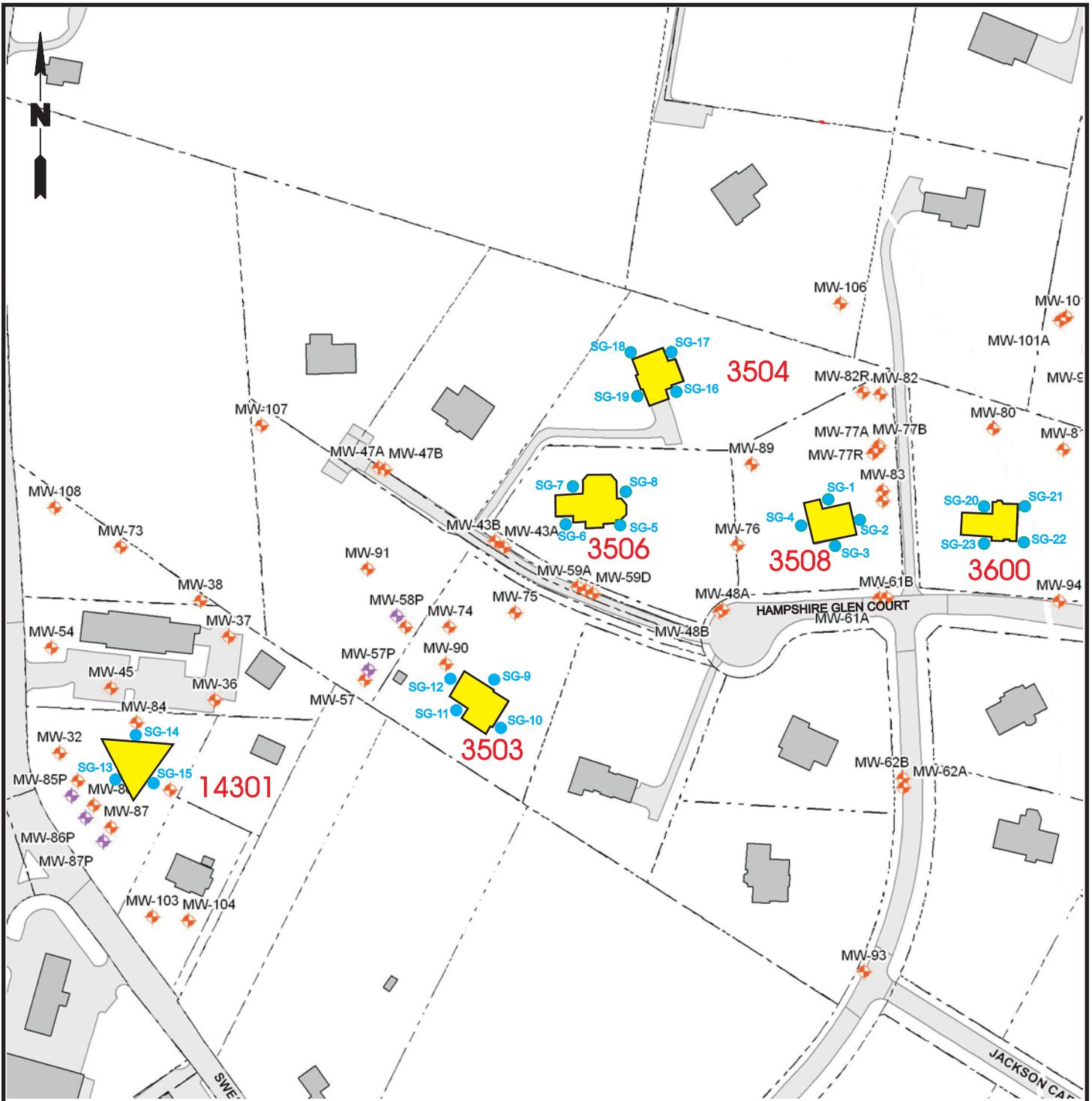
ppmv: Parts per million by volume.

Ambient air sample collected at grade.

Analytes reported were detected in at least one soil vapor / ambient air sample within the entire dataset

Soil vapor samples collected at five feet below grade

NA: Not analyzed



LEGEND

- APPROXIMATE LOCATION OF EXISTING SOIL VAPOR SAMPLING POINT
 - ◆ EXISTING MONITORING WELL
 - ◆ APPROXIMATE LOCATION AND ADDRESS OF PROPERTY AT WHICH SAMPLING WAS PERFORMED

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SOIL VAPOR SAMPLING LOCATIONS

EXXON RAS #2-8077
14258 JARRETSVILLE PIKE
PHOENIX, MARYLAND

EXXON MOBIL CORPORATION

The logo for Roux Associates, Inc. It features the word "ROUX" in large, bold, white capital letters inside a blue rounded rectangular box. Below this box, the words "ROUX ASSOCIATES, INC." are written in a smaller, black, sans-serif font. Underneath the company name, the words "Environmental Consulting & Management" are written in a smaller, italicized, black, sans-serif font.

ROUX ASSOCIATES, INC.
*Environmental Consulting
& Management*

*Environmental Consulting
& Management*

& Management

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Scale: AS SHOWN

Office. NY

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